

RF Inductor Part Numbering

(Part Number)

LQ	G	15	H	N	1N0	S	0	2	D
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

① Product ID

Product ID	
LQ	Chip Inductors (Chip Coils)

② Structure

Code	Structure
G	Multilayer Type (Air-core Inductor (Coil))
H	Wire Wound Type (Ferrite Core)
P	Film Type
W	Wire Wound Type (Air-core Inductor (Coil))
	Wire Wound Type (Ferrite Core)

③ Dimensions (L×W)

Code	Dimensions (L×W)	EIA
02	0.4×0.2mm	01005
03	0.6×0.3mm	0201
04	0.8×0.4mm	03015
15	1.0×0.5mm	0402
18	1.6×0.8mm	0603
21	2.0×1.25mm	0805
2B	2.0×1.5mm	0805
2U	2.5×2.0mm	1008
31	3.2×1.6mm	1206

④ Applications and Characteristics

Code	Series	Applications and Characteristics
H	LQG	Multilayer Air-core Inductor (Coil)
M	LQP	Film Type
T		Film Type (Low DC Resistance Type)
A	LQW	High Q Type (UHF-SHF)
H		High Q Type (VHF-UHF)
H	LQH	for High-frequency Resonant Circuit

⑤ Category

Code	Category
G/N	Standard Type
S	

⑩ Packaging

Code	Packaging	Series
K	Embossed Taping (ø330mm Reel)	LQH/LQW□□H *2
L	Embossed Taping (ø180mm Reel)	LQH/LQW2BA/LQW2UA/LQW□□H
B	Bulk	LQW/LQG/LQP
J	Paper Taping (ø330mm Reel)	LQW18A/LQG/LQP *1
D	Paper Taping (ø180mm Reel)	LQW□□A *3 / LQG/LQP

*1 Except LQP02T

*2 Except LQW21H

*3 Except LQW2BA/LQW2UA

⑥ Inductance

Expressed by three-digit alphanumerics. The unit is micro-henry (μH). The first and second figures are significant digits, and the third figure expresses the number of zeros which follow the two figures. If there is a decimal point, it is expressed by the capital letter "R". In this case, all figures are significant digits. If inductance is less than 0.1μH, the inductance code is expressed by a combination of two figures and the capital letter "N", and the unit of inductance is nano-henry (nH). The capital letter "N" indicates the unit of "nH", and also expresses a decimal point. In this case, all figures are significant digits.

⑦ Inductance Tolerance

Code	Inductance Tolerance
B	±0.1nH
C	±0.2nH
D	±0.5nH
G	±2%
H	±3%
J	±5%
K	±10%
S	±0.3nH
W	±0.05nH

⑧ Features

Code	Features	Series
0	Standard Type	LQG/LQP/LQW/LQH *1
1	High-Q/ Low DC Resistance	LQW15A/18A/2BH

*1 Except LQH32 Series

⑨ Electrode

•Lead (Pb) Free

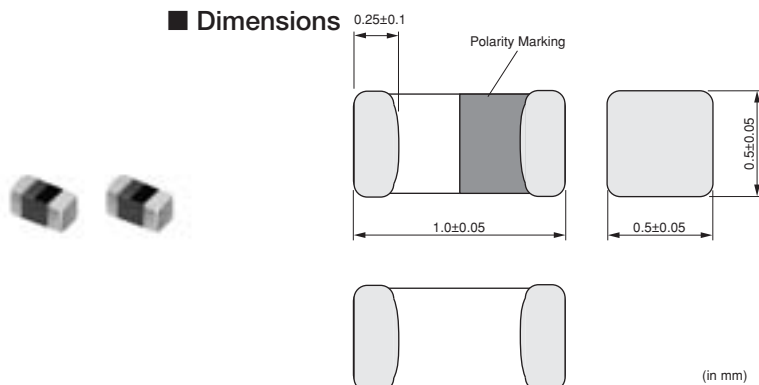
Code	Electrode	Series
0	Sn	LQG18H/LQW□□A/LQW□□C
2		LQG15H/LQP02T/LQP03T/LQP15T/LQP□□M
3	LF Solder	LQW□□H/LQH

LQG15HN Series (0402 Size)



0402 Size, Multilayer Type

■ Dimensions



■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Paper Tape	10000
J	330mm Paper Tape	50000
B	Bulk(Bag)	1000

Refer to pages from p.186 to p.189 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Inductance	Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)
LQG15HN1N0S02□	1.0nH ±0.3nH	100MHz	300mA	0.10ohm	8	100MHz	6000MHz
LQG15HN1N1S02□	1.1nH ±0.3nH	100MHz	300mA	0.10ohm	8	100MHz	6000MHz
LQG15HN1N2S02□	1.2nH ±0.3nH	100MHz	300mA	0.10ohm	8	100MHz	6000MHz
LQG15HN1N3S02□	1.3nH ±0.3nH	100MHz	300mA	0.10ohm	8	100MHz	6000MHz
LQG15HN1N5S02□	1.5nH ±0.3nH	100MHz	300mA	0.10ohm	8	100MHz	6000MHz
LQG15HN1N6S02□	1.6nH ±0.3nH	100MHz	300mA	0.10ohm	8	100MHz	6000MHz
LQG15HN1N8S02□	1.8nH ±0.3nH	100MHz	300mA	0.10ohm	8	100MHz	6000MHz
LQG15HN2N0S02□	2.0nH ±0.3nH	100MHz	300mA	0.12ohm	8	100MHz	6000MHz
LQG15HN2N2S02□	2.2nH ±0.3nH	100MHz	300mA	0.15ohm	8	100MHz	6000MHz
LQG15HN2N4S02□	2.4nH ±0.3nH	100MHz	300mA	0.16ohm	8	100MHz	6000MHz
LQG15HN2N7S02□	2.7nH ±0.3nH	100MHz	300mA	0.17ohm	8	100MHz	6000MHz
LQG15HN3N0S02□	3.0nH ±0.3nH	100MHz	300mA	0.18ohm	8	100MHz	6000MHz
LQG15HN3N3S02□	3.3nH ±0.3nH	100MHz	300mA	0.19ohm	8	100MHz	6000MHz
LQG15HN3N6S02□	3.6nH ±0.3nH	100MHz	300mA	0.19ohm	8	100MHz	6000MHz
LQG15HN3N9S02□	3.9nH ±0.3nH	100MHz	300mA	0.19ohm	8	100MHz	6000MHz
LQG15HN4N3S02□	4.3nH ±0.3nH	100MHz	300mA	0.21ohm	8	100MHz	6000MHz
LQG15HN4N7S02□	4.7nH ±0.3nH	100MHz	300mA	0.23ohm	8	100MHz	6000MHz
LQG15HN5N1S02□	5.1nH ±0.3nH	100MHz	300mA	0.24ohm	8	100MHz	6000MHz
LQG15HN5N6S02□	5.6nH ±0.3nH	100MHz	300mA	0.26ohm	8	100MHz	5300MHz
LQG15HN6N2S02□	6.2nH ±0.3nH	100MHz	300mA	0.27ohm	8	100MHz	4300MHz
LQG15HN6N8J02□	6.8nH ±5%	100MHz	300mA	0.29ohm	8	100MHz	4200MHz
LQG15HN7N5J02□	7.5nH ±5%	100MHz	300mA	0.31ohm	8	100MHz	3900MHz
LQG15HN8N2J02□	8.2nH ±5%	100MHz	300mA	0.33ohm	8	100MHz	3600MHz
LQG15HN9N1J02□	9.1nH ±5%	100MHz	300mA	0.34ohm	8	100MHz	3400MHz
LQG15HN10NJ02□	10nH ±5%	100MHz	300mA	0.35ohm	8	100MHz	3200MHz
LQG15HN12NJ02□	12nH ±5%	100MHz	300mA	0.41ohm	8	100MHz	2800MHz
LQG15HN15NJ02□	15nH ±5%	100MHz	300mA	0.46ohm	8	100MHz	2300MHz
LQG15HN18NJ02□	18nH ±5%	100MHz	300mA	0.51ohm	8	100MHz	2100MHz
LQG15HN22NJ02□	22nH ±5%	100MHz	300mA	0.58ohm	8	100MHz	1800MHz
LQG15HN27NJ02□	27nH ±5%	100MHz	300mA	0.67ohm	8	100MHz	1600MHz
LQG15HN33NJ02□	33nH ±5%	100MHz	200mA	0.67ohm	8	100MHz	1500MHz
LQG15HN39NJ02□	39nH ±5%	100MHz	200mA	1.06ohm	8	100MHz	1200MHz

Operating Temperature Range (Self-temperature rise is not included): -55°C to +125°C
Only for reflow soldering.

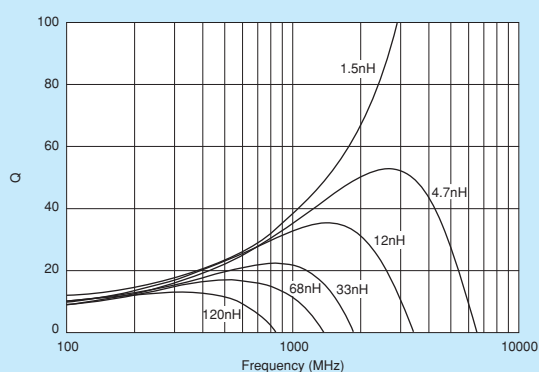
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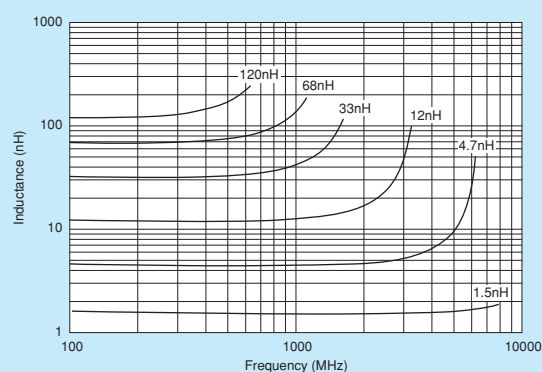
Part Number	Inductance	Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)
LQG15HN47NJ02□	47nH ±5%	100MHz	200mA	1.15ohm	8	100MHz	1000MHz
LQG15HN56NJ02□	56nH ±5%	100MHz	200mA	1.20ohm	8	100MHz	800MHz
LQG15HN68NJ02□	68nH ±5%	100MHz	180mA	1.25ohm	8	100MHz	800MHz
LQG15HN82NJ02□	82nH ±5%	100MHz	150mA	1.60ohm	8	100MHz	600MHz
LQG15HNR10J02□	100nH ±5%	100MHz	150mA	1.60ohm	8	100MHz	600MHz
LQG15HNR12J02□	120nH ±5%	100MHz	150mA	1.60ohm	8	100MHz	600MHz

Operating Temperature Range (Self-temperature rise is not included): -55°C to +125°C
Only for reflow soldering.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



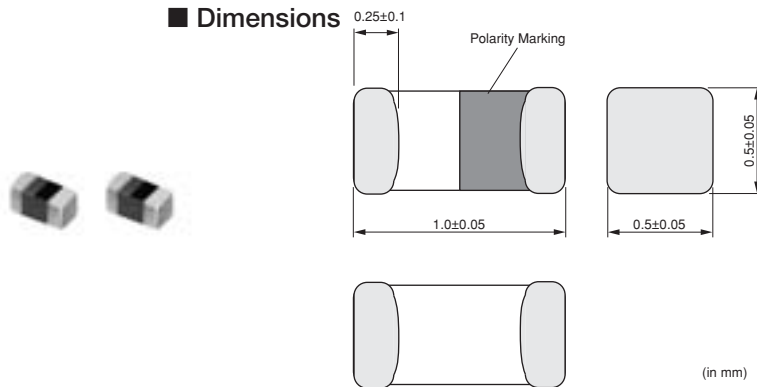
LQG15HS

Series (0402 Size)



Designed under Industrial Global Standard

■ Dimensions



■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Paper Tape	10000
J	330mm Paper Tape	50000
B	Bulk(Bag)	1000

Refer to pages from p.186 to p.189 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Inductance	Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)	
LQG15HS1N0S02□	1.0nH ±0.3nH	100MHz	300mA	0.07ohm	8	100MHz	10000MHz	Kit
LQG15HS1N1S02□	1.1nH ±0.3nH	100MHz	300mA	0.09ohm	8	100MHz	6000MHz	Kit
LQG15HS1N2S02□	1.2nH ±0.3nH	100MHz	300mA	0.09ohm	8	100MHz	6000MHz	Kit
LQG15HS1N3S02□	1.3nH ±0.3nH	100MHz	300mA	0.09ohm	8	100MHz	6000MHz	Kit
LQG15HS1N5S02□	1.5nH ±0.3nH	100MHz	300mA	0.1ohm	8	100MHz	6000MHz	Kit
LQG15HS1N6S02□	1.6nH ±0.3nH	100MHz	300mA	0.1ohm	8	100MHz	6000MHz	Kit
LQG15HS1N8S02□	1.8nH ±0.3nH	100MHz	300mA	0.1ohm	8	100MHz	6000MHz	Kit
LQG15HS2N0S02□	2.0nH ±0.3nH	100MHz	300mA	0.1ohm	8	100MHz	6000MHz	Kit
LQG15HS2N2S02□	2.2nH ±0.3nH	100MHz	300mA	0.12ohm	8	100MHz	6000MHz	Kit
LQG15HS2N4S02□	2.4nH ±0.3nH	100MHz	300mA	0.15ohm	8	100MHz	6000MHz	Kit
LQG15HS2N7S02□	2.7nH ±0.3nH	100MHz	300mA	0.15ohm	8	100MHz	6000MHz	Kit
LQG15HS3N0S02□	3.0nH ±0.3nH	100MHz	300mA	0.17ohm	8	100MHz	6000MHz	Kit
LQG15HS3N3S02□	3.3nH ±0.3nH	100MHz	300mA	0.17ohm	8	100MHz	6000MHz	Kit
LQG15HS3N6S02□	3.6nH ±0.3nH	100MHz	300mA	0.18ohm	8	100MHz	6000MHz	Kit
LQG15HS3N9S02□	3.9nH ±0.3nH	100MHz	300mA	0.18ohm	8	100MHz	6000MHz	Kit
LQG15HS4N3S02□	4.3nH ±0.3nH	100MHz	300mA	0.18ohm	8	100MHz	6000MHz	Kit
LQG15HS4N7S02□	4.7nH ±0.3nH	100MHz	300mA	0.18ohm	8	100MHz	6000MHz	Kit
LQG15HS5N1S02□	5.1nH ±0.3nH	100MHz	300mA	0.2ohm	8	100MHz	5300MHz	Kit
LQG15HS5N6S02□	5.6nH ±0.3nH	100MHz	300mA	0.2ohm	8	100MHz	4500MHz	Kit
LQG15HS6N2S02□	6.2nH ±0.3nH	100MHz	300mA	0.22ohm	8	100MHz	4500MHz	Kit
LQG15HS6N8J02□	6.8nH ±5%	100MHz	300mA	0.24ohm	8	100MHz	4500MHz	Kit
LQG15HS7N5J02□	7.5nH ±5%	100MHz	300mA	0.24ohm	8	100MHz	4200MHz	Kit
LQG15HS8N2J02□	8.2nH ±5%	100MHz	300mA	0.24ohm	8	100MHz	3700MHz	Kit
LQG15HS9N1J02□	9.1nH ±5%	100MHz	300mA	0.26ohm	8	100MHz	3400MHz	Kit
LQG15HS10N0J02□	10nH ±5%	100MHz	300mA	0.26ohm	8	100MHz	3400MHz	Kit
LQG15HS12N0J02□	12nH ±5%	100MHz	300mA	0.28ohm	8	100MHz	3000MHz	Kit
LQG15HS15N0J02□	15nH ±5%	100MHz	300mA	0.32ohm	8	100MHz	2500MHz	Kit
LQG15HS18N0J02□	18nH ±5%	100MHz	300mA	0.36ohm	8	100MHz	2200MHz	Kit
LQG15HS22N0J02□	22nH ±5%	100MHz	300mA	0.42ohm	8	100MHz	1900MHz	Kit
LQG15HS27N0J02□	27nH ±5%	100MHz	300mA	0.46ohm	8	100MHz	1700MHz	Kit
LQG15HS33N0J02□	33nH ±5%	100MHz	200mA	0.58ohm	8	100MHz	1600MHz	Kit
LQG15HS39N0J02□	39nH ±5%	100MHz	200mA	0.65ohm	8	100MHz	1200MHz	Kit

Operating Temperature Range (Self-temperature rise is not included): -55°C to +125°C
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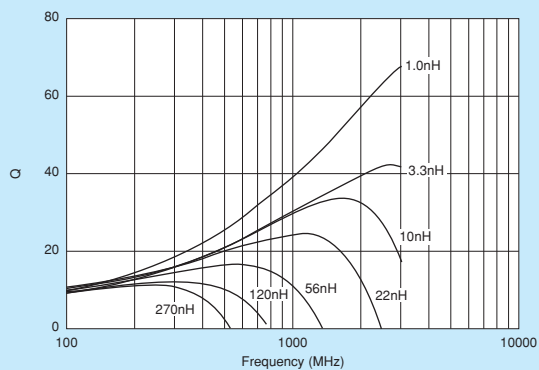
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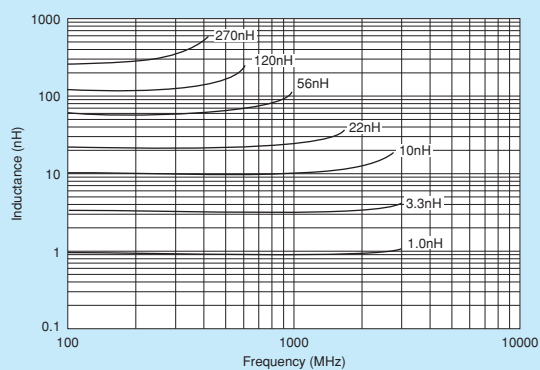
Part Number	Inductance	Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)	
LQG15HS47NJ02□	47nH ±5%	100MHz	200mA	0.72ohm	8	100MHz	1000MHz	Kit
LQG15HS56NJ02□	56nH ±5%	100MHz	200mA	0.82ohm	8	100MHz	800MHz	Kit
LQG15HS68NJ02□	68nH ±5%	100MHz	180mA	0.92ohm	8	100MHz	800MHz	Kit
LQG15HS82NJ02□	82nH ±5%	100MHz	150mA	1.2ohm	8	100MHz	700MHz	Kit
LQG15HSR10J02□	100nH ±5%	100MHz	150mA	1.25ohm	8	100MHz	600MHz	Kit
LQG15HSR12J02□	120nH ±5%	100MHz	150mA	1.3ohm	8	100MHz	600MHz	Kit
LQG15HSR15J02□	150nH ±5%	100MHz	140mA	2.99ohm	8	100MHz	550MHz	Kit
LQG15HSR18J02□	180nH ±5%	100MHz	130mA	3.38ohm	8	100MHz	500MHz	Kit
LQG15HSR22J02□	220nH ±5%	100MHz	120mA	3.77ohm	8	100MHz	450MHz	Kit
LQG15HSR27J02□	270nH ±5%	100MHz	110mA	4.94ohm	8	100MHz	400MHz	Kit

Operating Temperature Range (Self-temperature rise is not included): -55°C to +125°C
Only for reflow soldering.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

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■ Reference Data

4991A&16197A

Part Number	Inductance (nH) 100MHz	Q (Typ.)				
		800MHz	900MHz	1.8GHz	2.0GHz	2.4GHz
LQG15HS1N0S02	1.0	32	34	51	54	57
LQG15HS1N1S02	1.1	35	37	59	62	64
LQG15HS1N2S02	1.2	34	36	56	58	60
LQG15HS1N3S02	1.3	34	36	56	57	58
LQG15HS1N5S02	1.5	31	34	50	53	55
LQG15HS1N6S02	1.6	31	33	50	52	54
LQG15HS1N8S02	1.8	31	33	48	49	50
LQG15HS2N0S02	2.0	31	32	47	48	49
LQG15HS2N2S02	2.2	32	34	48	49	50
LQG15HS2N4S02	2.4	32	34	51	52	52
LQG15HS2N7S02	2.7	31	33	49	50	50
LQG15HS3N0S02	3.0	32	34	49	51	50
LQG15HS3N3S02	3.3	31	33	46	47	46
LQG15HS3N6S02	3.6	31	33	45	47	46
LQG15HS3N9S02	3.9	31	33	49	47	46
LQG15HS4N3S02	4.3	31	33	44	45	44
LQG15HS4N7S02	4.7	31	33	42	43	42
LQG15HS5N1S02	5.1	31	33	44	45	42
LQG15HS5N6S02	5.6	30	32	41	40	38
LQG15HS6N2S02	6.2	29	31	41	41	38
LQG15HS6N8J02	6.8	29	30	40	40	37
LQG15HS7N5J02	7.5	28	29	38	37	34
LQG15HS8N2J02	8.2	27	29	35	34	29
LQG15HS9N1J02	9.1	27	29	36	35	31
LQG15HS10NJ02	10	27	29	35	33	28
LQG15HS12NJ02	12	26	27	28	24	18
LQG15HS15NJ02	15	26	27	25	21	13
LQG15HS18NJ02	18	25	25	22	18	-
LQG15HS22NJ02	22	23	24	16	-	-
LQG15HS27NJ02	27	21	21	-	-	-
LQG15HS33NJ02	33	20	20	-	-	-
LQG15HS39NJ02	39	19	18	-	-	-
LQG15HS47NJ02	47	17	16	-	-	-
LQG15HS56NJ02	56	15	13	-	-	-
LQG15HS68NJ02	68	12	10	-	-	-
LQG15HS82NJ02	82	9	6	-	-	-
LQG15HSR10J02	100	-	-	-	-	-
LQG15HSR12J02	120	-	-	-	-	-

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